ABSTRACT

The present invention relates to a method for providing multiple channel estimation in the field of space time coding in a radio communication system. Space time coding includes transmitter diversity, space(-time) multiplexing and other complex use of signal coding in time and space.

The inventive solution of the problems is to send pilot signals concurrently instead of consecutively in order to increase bandwith efficiency during a multitude of channel transfer functions in OFDM and doing so, guaranteeing non-interfering channel estimates at low processing cost for both transmitter and receiver side, in relation to prior art.

A purpose of the invention is to provide a channel estimation technique, which is very bandwith efficient.